



1 FEB 1979

DRAFT MINUTES

Working Committee
St. Louis Park Groundwater Problem

January 17, 1979

The first meeting of the Working Committee was held in the PCA Boardroom at 10:00 a.m., January 17, 1979. Members of the Committee are:

Lovell Richie	Deputy Ex. Dir. (MPCA)	612-296-7303
John-Mark Stensvaag	Special Asst. Atty Gen (MPCA)	612-296-7703
Richard Wade	Dir. Env. Health (MDH)	612-296-5320
Donald Albin	Dist. Chief (USGS)	612-725-7841
Richard Bartelt	Chief Groundwtr Prot (EPA)	312-353-2151
Richard Koppy	Dir. Pub. Wks (SLP)	612-920-3000
Dudley Moylan	V. Chmn Housing Auth (SLP)	612-938-5683

MEMBERS PRESENT:

All members were present except Richard Wade.

OTHERS PRESENT:

Dale Wikre	Facilities Sect (MPCA)	612-296-7218
John Elwell	City Mgr (SLP)	612-920-3000
R.T. Rybak	Suburban Sun Newspaper	

The meeting started somewhat late (10:30) due to delayed air connection for Rich Bartelt and waiting for a representative from Health.

The meeting was chaired by Lovell Richie who discussed briefly the purpose of the Committee as envisioned by Ms. Gardebring and Dr. Lawson who requested the Committee be established.

The purpose of the Committee is to provide a routine mechanism for communication between governmental units and to provide a forum for the exchange of ideas relating to problems and ongoing programs; and to provide an opportunity for the evaluation of

ongoing efforts by all parties. A significant advantage of having such a committee is to provide direct communication with an opportunity for discussion as opposed to written correspondence and exchange of memoranda.

Funding for studies provided by the state to date was discussed and ongoing studies by Health were discussed only briefly and it was decided to ask Health to report on the status of those studies.

In regard to future funding for studies the Committee agreed to pursue the possibility of Research and Demonstration (R&D) grant funds which might be available from the federal government under various EPA programs including the Water Act (P.L. 92-500); the Resource Conservation and Recovery Act (RCRA); and the Safe Drinking Water Act (SDWA).

Dale Wikre (PCA) was assigned to coordinate the development of a R&D grant application with the matter of the grantee left open for the present.

Rich Bartelt agreed to investigate the federal funding possibilities under EPA and suggested that we might begin by working with Mr. Jack Kealey at the EPA Kerr Center in Ada, Oklahoma, who would review most such studies involving groundwater.

Don Albin made a very informative presentation of ongoing USGS studies under contract with Health. He indicated there were 114 wells in the "area" and 80 in the "nearby area." "Nearby" indicating that they may be impacted or impacting the groundwater contamination. These 80 wells are of all sizes and depths and approximately 20 of them can no longer be located. Their existence is evidenced by historical well records; i.e., they were drilled.

Mr. Albin further stated that total "abandonment" may be unwise and their report will suggest selective wells be retained for detailed sampling to confirm the groundwater model being developed. He indicated further that the Committee needs to adopt uniform terminology regarding wells:

- abandonment - simply not used
- closure - no longer used and properly filled and capped.

Don said the report on well information will be available in about a week (about January 26) and will be presented to Health who is the contracting party. The report and data can be made available to the Committee at the same time with the permission of Health. All agreed that this should be done. Mr. Richie will contact Health and request that the report and data be made available to the Committee at the same time Health receives it.

The complete report on geohydrology - model development and predictions will not be available until September, 1980 under the contract. Only one year (through September, 1979) has been funded and Health needs to discuss with the Committee what plans it has to complete the funding.

Some details of the study were discussed regarding methods and funding which is available in the technical data developed by USGS. Napthalene appears to be moving faster in relation to other known contaminants which may be related to its higher solubility and the USGS proposes to use napthalene as a tracer. Dr. Pfankuch will be doing some studies of the mobility of napthalene in soils to help in developing the model.

Don Albin suggested that the agencies need to think beyond the current studies involving:

I. ONGOING

- A. Geology
- B. Hydrology
- C. Model Development
- D. Confirmation

II. FUTURE

Identification of possible solutions listing a wide variety of possibilities with combinations so we will be prepared when the model is available to utilize it to decide which possible solutions provide the best alternatives.

Regarding future meetings of the Committee, it was agreed that they should be scheduled regularly and while we did not agree on a permanent date, we did agree on the next meeting to be Tuesday, February 6 at 9:30 a.m.* In accordance with Ms. Gardebring's and Dr. Lawson's letter the next meeting will be at Health and Dr. Wade will host the meeting.

The following is a suggested agenda based on the discussion at our January 17 meeting.

* Note that Dudley Moylan requested a 9:30 starting time.

PROPOSED AGENDA

- | | |
|-------|--|
| 9:30 | 1. Call to order |
| | 2. Correspondence (See attached) |
| | a. Letter from Dudley Moylan re: meeting times |
| | b. Letter from Robert Strauss re: participation |
| | 3. Review and approval of Minutes |
| 10:00 | 4. Presentation of USGS/MDH Report (Report on well location, construction, abandonment analysis, etc.) |
| 11:30 | 5. Status of grant application process |
| 11:45 | 6. Selection of meeting date and agenda for next meeting |
| 12:00 | 7. Adjournment |

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ELLIOT D. FELLER
LOUIS L. AINSWORTH
ROBERT J. LUKES

January 19, 1979

File No. _____

Mr. Lovell Ritchie
Minnesota Pollution Control Agency
1935 West County Road B-2
Roseville, Minnesota 55113

Mr. John Stensvaag
Pollution Control Division
Attorney General
1935 West County Road B-2
Roseville, Minnesota 55113

Mr. Richard Wade
Minnesota Department of Health
717 Delaware Avenue S.E.
Minneapolis, Minnesota 55440

Mr. Dudley Moylan
St. Louis Park Housing
and Redevelopment Authority
5005 Minnetonka Boulevard
St. Louis Park, Minnesota 55416

Re: Water Quality Committee on the
St. Louis Park Creosote Matter

Dear Gentlemen:

News of the establishment of the Water Quality Committee to explore the problems created by the Riley Tar and Chemical Corporation in St. Louis Park was very encouraging to hear. I have been dealing with this problem on behalf of the Izaak Walton League over the past eighteen months and have been trying to establish a committee of this type. A resolution of the Izaak Walton League adopted last month states as follows:

"RESOLVED, that the determination of an acceptable resolution of this problem (the creosote problem) requires that all studies, proposals and implementation of solutions be overseen by and made after consultation with an advisory board consisting of members from the United States Geological Survey, the Minnesota Department of Health, the Minnesota Pollution Control Agency, the City of St. Louis Park, and at least two members of public interest groups concerned with this matter."

Mr. Richard Koppy
City of St. Louis Park
5005 Minnetonka Boulevard
St. Louis Park, Minnesota 55416

Mr. Donald Albin
U.S. Geological Survey
1033 Post Office Building
St. Paul, Minnesota 55101

Mr. Richard Bartlett
Water Supply Division
Environmental Protection Agency
230 South Dearborn
Chicago, Illinois 60604

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JAN 22 1979
MINN. POLLUTION
CONTROL AGENCY

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PAGE NO. 2

It appears that this idea has reached fruition and may go forward in providing a consolidated effort in this matter. It is unfortunate, however, that the Committee as it now stands contains no members of the public who may be able to add additional insights to this problem. I have become very familiar with the problem and the prior studies relating thereto and, as a citizen of St. Louis Park, I am very concerned and interested in the outcome of this matter. I have discussed this matter with Dale Wikre from the PCA, and Dick Koppy of the City of St. Louis Park, and each has been receptive to the idea of my serving as a public representative for the Izaak Walton League.

On behalf of the Izaak Walton League, I am hereby requesting from each of you as members of the Committee and for your respective agencies the authority to include myself on the Committee as a public representative. I look forward to working with each of you and your staffs towards a proper resolution of this problem. Feel free to contact me with any questions at the above address.

Sincerely,



Robert F. Strauss

RFS/rz

RECEIVED
JAN 19 1979

J. DUDLEY MOYLAN
6920 EXCELSIOR BOULEVARD
MINNEAPOLIS, MINNESOTA 55426

MINN. POLLUTION
CONTROL AGENCY

January 18, 1979

Lovell Richie, Dep. Executive Director
Minnesota Pollution Control Agency
1935 West County Road B-2
Roseville MN 55113


Dear Mr. Richie:

I enjoyed meeting you at yesterday's meeting on
the St. Louis Park pollution problem and think
the committee will be very useful.

I am writing to suggest that we meet on February
6 at 9:30 rather than 9:00. My sole reason for
the suggested change is that those of us from
St. Louis Park can thereby avoid rush hour traffic,
which I believe we would otherwise have to encounter.

I plan to be there whatever time you choose.

Sincerely,


J. Dudley Moylan

8 JUN 1979

Draft Minutes
Working Committee
St. Louis Park Groundwater Problems

May 22, 1979

The fifth meeting of the Committee was held in the basement conference room at the Minnesota Pollution Control Agency (MPCA) offices on May 22, 1979. Members present were:

David Giese	MN Department of Health	296-5569
Dudley Moylan	HRA - St. Louis Park	335-9331
Richard Koppy	Director Public Works - SLP	920-3000
Donald R. Albin	USGS	725-7841

Others present were:

Edwin Ross	MN Department of Health	296-5338
David Gray	MN Department of Health	296-5352
Stephen Shakman	AG - MPCA	296-1892
William Donohue	AG - MPCA	296-7345
Dale Wikre	MPCA	296-7315
Richard Ferguson	MPCA	296-7258

Item I - Status of Health Funding:

The Department of Health has drafted a rider to the Senate Appropriation Bill providing \$200,000 for the binnium that could be used in either fiscal year 80 or 81. David Giese has not yet seen the bill, however, he has been assured that the rider was included.

Item II - Status Report on Hinckley Well:

Richard Koppy reported that the City of St. Louis Park has had its proposal, to insert rubber packers into the Hinckley Well, accepted by the Department of Health. The City has not yet received bids on the project estimated to cost \$8,000. Before work on the project can begin, the City Council must approve the bidding. Dick believes this is only a formality, and should not present a problem.

Item III - Discussion on Locating the Deep Well Near the Hinckley Well:

David Giese asked the Committee if the deep well has been found near the Hinckley Well. Dick repsonded, stating that the City has not looked for the well, and does not have the expertise to do so on their own. It was then asked if the existence of the well has been documented. Don Albin stated that a letter has been found that references the existence of the deep well. Don also said that the USGS has pursued trying to find the well as much as they can under the present time constraints of their contract.

Steve Shakman reported that Reilly Tar and Chemical will be sending, to the attorneys, historic documents dating back to 1917. The documents may contain information useful in locating the additional well. Some of the requested documents includes old blueprints. Dale suggested, and Ed Ross concurred, that the Committee should defer any on-site hunting for the well until the documents have been searched for a location of the well.

Item IV - Private Well Abandonment:

Ed Ross discussed and distributed a handout that summarized the status of the private well abandonment. Generally the well owners have been cooperative with the Health Department, the exception being Kings Inn, where no sampling has been allowed. Dale Wikre and Don Albin requested information on the well abandonment program. In response to this, Ed Ross will be compiling a report on the well abandonment, which will include well locations and water quality analyses.

Item V - St. Louis Park Carbon Treatment Test:

Dick Koppy has not received all the equipment necessary to conduct the Carbon Treatment Test. The equipment is expected to arrive any day.

The City has lost approximately 10 percent of their water supply capacity due to well closure. Dick is not sure if there will be a water supply shortage this summer. Since a shortage is possible, Dick would like to conduct the Carbon Treatment Test as soon as possible. Serco labs is the consultant on the project.

Dick distributed copies of the Carbon Treatment Test procedures to the Committee. Concerning procedure number 6, Dale Wikre asked for a definition of acceptable limits for PAHs. David Gray stated that the EPA should be releasing regulations on Hydrocarbons in July, Dave expects that under the new regulations, no detectable amount of Benzapyrene will be allowed in the Cities drinking water supply.

Item VI - Changes in the Work Committee and Subcommittee:

The Working Committee appointed David Gray to replace Dale Wikre as Chairman of the Subcommittee. Dale announced that James Kinsey of the Hazardous Waste Section, in the Division of Solid Waste, will be working on the Subcommittee.

As of June 18, Roger DeRoos will be the Director of the Environmental Health Division at the Department of Health. Dave Giese, who has been serving as the Acting Director, will no longer be participating on the Working Committee.

Item VII - RFPs

It was determined that the Subcommittee will assist the Health Department in drafting RFPs and identifying possible consultants. The

RFPs will be issued between July 1 and September. Dave Giese was not sure how the consultants would be screened, he requested that a discussion of this be postponed.

Item VIII - Status of Construction at St. Louis Park:

Dick reported that the City has completed the first bridge and is now working on the south bridge. Dick said that the City intends to complete construction of a temporary alignment extending Louisiana Avenue from Walker Street to station 30+10. This would reduce truck traffic on residential streets.

The next meeting will be held at 9:30 a.m., June 19, 1979, in room 408, at the Department of Health.

RZ JAN 1980
07 JAN 1980

Draft Minutes
Working Committee
St. Louis Park Ground Water Problems

November 20, 1979

The tenth meeting of the Committee was held in the St. Louis Park City Offices on November 20, 1979. Members present were:

Donald Albin	USGS	725-7841
Roger DeRoos	Minn. Dept. of Health	296-5320
Richard Koppy	Director of Public Works - SLP	920-3000
Dudley Moylan	HRA - St. Louis Park	335-9331

Others present were:

David Gray	Minn. Dept. of Health	296-5352
Michael Convery	Minn. Dept. of Health	296-5358
Marc Hult	USGS	725-7841
Stephen Shakman	AG - MPCA	296-7703
Gordon W. Meyer	MPCA	296-7218
Richard R. Ferguson	MPCA	296-7258
Stanelly G. Peterson	Citizen	

Item 1 - West 36th Street/Highway 100
Interchange Project

Thommas Carrol from BRW discussed the "Water Quality Report" on the West 36th Street and Highway 100 interchange project. The report addressed the issue of whether the proposed project would have any effect on the movement of contaminated ground water to the west.

Planning for the project is in the preliminary stages. Although specifications such as the depth of the pilings are not yet known, much of the information on the project is available: the water table in the area is below the level of construction, the pilings to be driven for the construction of the bridges will not reach bedrock, the front of the contamination in the drift has reached or will soon reach the construction area, the contamination in the bedrock has surpassed the area.

The report concluded that the project will not have a negative effect on the water quality. Comments from the agencies on the project are being solicited by BRW.

Item 2 - USGS Preliminary Evaluation Report
on the Contamination of Ground Water
by Coal Tar Derivatives in St. Louis Park

Marc Hult presented a progress report on the first year's work by the USGS. The USGS has completed a preliminary report that includes graphs and figures illustrating the geologic framework, a discussion of the geology and a water quality discussion. The report identifies three sources for the contamination of the drift and Platteville aquifers: infiltration of spills and drippings on the site itself, recharge from the ponds south of the site which received surface runoff and contaminated process water, and at least one spill into W23 on the site. The bedrock contamination is probably due to all three modes of contamination.

Since the preliminary report was completed, the buried bedrock valley has been further studied. There exists a north-south trending valley with a tentative arm trending north-west. Additional drilling is scheduled to define the north-west arm.

The USGS is studying the use of Sodium as an inorganic tracer. The behavior of Sodium is more predictable, and its presence can be determined utilizing simpler methods. Ammonia may also be useful since it mimics the concentrations of other contaminants.

Contamination of the Prairie du Chien aquifer was known in 1932. The spread of the contaminants in the aquifer has been rapid due to a high flow velocity and high dispersion. A two dimensional solid transport model has been used to analyze the spread of the contaminants. A computer is used to combine the effects of the ground water gradient and the injection well. A gradient of 10 feet per mile was combined with an injection rate of 100 gallons per minute. After two years, two percent of the contamination source had moved 3,000 feet to the old St. Louis Park well. As the system is stressed by the addition of pumping wells, the distribution of the contaminants becomes more complex.

A sectional flow model is being developed for the drift aquifer, which is very heterogeneous. Marc plans to expand this conceptual model horizontally. The model is refined by collecting additional information in the field where the model is questioned or where there is inadequate data.

Item 3 - Water and Air Quality Meeting

Dick Koppy distributed the agenda for the Water and Air Quality meeting in St. Louis Park. The meeting is scheduled to be held at 7:30 p.m. in the Senior High School auditorium on November 20, 1979.

Item 4 - Road Project Meeting

A meeting was scheduled for the first week in December to discuss an agreement on the road construction project. The agreement signed by the Minnesota Department of Transportation, Minnesota Department of Health, Minnesota Pollution Control Agency and the City of St. Louis Park prohibits construction of the extension of Louisiana Avenue north of station 30+00.

Item 5 - Discussion on the RFP

The RFP was published in the State Register on November 19, 1979. On December 12, there will be an informational meeting to provide detailed information needed by the firms and to define the required work and capabilities needed. It is the intent of the Health Department to hire a consultant during April 1980.

The funding for the project will be \$120,000. Dick Koppy suggested that the consultant comment on the funding adequacy of the project. If necessary, requests for additional funding could be made to the LCMR and the legislature.

Item 6 - Carbon Treatment Status

Dick Koppy handed out a report on the carbon treatment studies. Preliminary analyses of the results by the Health Department suggest that this method of treatment will be satisfactory. The next step by the city will be to hire a consultant to design a permanent treatment system from the results of the pilot study.

Item 7 - Discussion on Opening the Meeting to the Public

Dick has received requests to open the working committee meetings to the public. At the first meeting, the committee agreed that the meetings should be kept small. It may be necessary to lengthen the meetings and conduct them more frequently if they are opened up to the public. It was pointed out that some organizations such as the Izaak Walton League, which has been attending the meetings, could be helpful to the committee.

The next meeting will be held January 9, 1980 at 9:30 a.m. in the basement conference room at the MPCA.

MINUTES

Working Committee St. Louis Park Ground Water Problems

October 1, 1980

RECEIVED
OCT 9 1980

USEPA, EEI BRANCH
536 South Clark Street
Chicago, Illinois 60605

The 17th meeting of the Committee was held in Room 206, Minnesota Department of Health. Members present were:

Don Albin	USGS	725-7841
Roger DeRoos	MDH	296-5320
Dick Koppy	St. Louis Park	920-3000
Dudley Moylan	Housing Authority	
	St. Louis Park	938-5683
Lovell Richie	MPCA	296-7339

Others present:

Mike Convery	MDH	296-5297
Robert Strauss	IWL	339-7531
Steve Shakman	MPCA	296-7703
John Erdmann	Hickok & Associates	473-4224

I. The agenda was approved as prepared.

II. The minutes of August 27, 1980 were approved as prepared.

III. Mike Convery reported on soil and water analyses data explaining that there is a concerted effort to put together in one place all such information. Files searches have been made of state agencies and Mike inquired what information the City and HRA might have. Dick Koppy indicated the City has at least two file drawers of data. It includes much data also held by state agencies but also includes developer data. There are perhaps 200 soil borings described "very generally" and perhaps 25 borings well described so as to be useful to the participants. Mike Convery and Rick Ferguson will contact the City and review its information in the next few weeks.

IV. Louisiana Avenue temporary roadway construction status was described by Dick Koppy. Road work is progressing rapidly. Excavations in the segment from the railroad bridges to Cardinal Glass were made up to 20 feet with no visibly contaminated material noted. They did encounter lime sludge thought to be from the old Pres-to-lite gas plant. About 25 percent of the excavated material was this lime sludge. Most all of "clean" material was moved north of STH 7 to Block 8 on Oak Park Heights development.

Heavy contamination oil soaked soil was found in two areas along frontage road, one north of STH 7 near plywood plant and one south near door factory. This material was placed in the area immediately south of STH 7 known to be heavily contaminated. These deposits were about 2 - 3 feet in thickness.

Dick Koppy reported that elevated levels of phenol (.008 mg/l) and hexane extractables (8 mg/l) were noted in the railroad bridge storm sewer lift station samples. Previous results had been less than .002 and 1 mg/l, respectively. All pumpage from this lift station goes to the treatment ponds which have not been discharged in recent months.

Dick Koppy said the City hoped to have the temporary roadway open in some fashion mid-November. The contract completion date, however, is for next spring.

Dick Koppy expressed some frustration in that the contractors (equipment operators) do not seem to appreciate the importance of segregating highly contaminated materials and this requires careful field checking by City.

V. The status of drinking water studies was reported by Dick Koppy and John Erdmann. Three phases were discussed:

- 1) study of available information completed;
- 2) treatment study using both powdered and granular carbon underway with equipment performing well. Laboratory results were not available but will be within the week;
- 3) Consultant has looked into funding for corrective action. Have discussed superfund with EPA.

Don Albin reported that preliminary results of USGS studies on microbiology indicates considerable activity even at depth in the bed rock units. This may provide an opportunity for in place treatability studies.

VI. Status of St. Louis Park study by consultant. Mike Convery reported that we are awaiting a work plan from Geraghty-Miller which is expected by the end of October or early November.

VII. Well abandonment program -- Mike Convery reported that MDH was going to LAC on October 1, 1980 for \$29,640 to continue program on five wells.

Dick Koppy reported that City council had approved proper closure of the well recently found under 39th Street in front of medical center at a cost of about \$4,000.

Working Committee - St. Louis Park Ground Water Problems
Minutes - October 1, 1980
Page Three

VIII. Dudley Moylan discussed the federal complaint against Reilly with Steve Shakman.

Dick Koppy inquired about a meeting scheduled for October 9 with Reilly and EPA regarding lawsuit. Steve Shakman was aware of meeting date but not the details of meeting.

Dick Koppy advised that in response to the Channel 11 coverage of St. Louis Park regarding breast cancer which they thought unfair, the City had asked for 5 minutes equal time to explain what they have done to correct and protect the water supply. It will be aired October 3 or 4.

** THE NEXT MEETING WAS SET FOR 9 a.m., NOVEMBER 12, 1980

AT CITY HALL, ST. LOUIS PARK **

16 APR 1979

RB

AGENDA

WORKING COMMITTEE
ST. LOUIS PARK GROUNDWATER PROBLEM

9:30 A.M., April 17, 1979
2nd Floor Conference Room
St. Louis Park City Hall

1. Status Report on FY80-81 Budget Request (D. Giese)
2. Status Report on Well Abandonment:
 - a. Private Property (D. Giese)
 - b. St. Louis Park Property (R. Koppy)
3. Outline of Necessary Studies (D. Giese)
4. Additional Committee Business

AGENDA
Working Committee Meeting
St. Louis Park Ground Water Problem
July 14, 1983
Department of Health, Room 408
9:30 a.m.

- I. Review and Approval of Agenda
- II. Review of Minutes of April 21, 1983, Meeting
- III. Review of Corrected Minutes of January 27, 1983, Meeting
- IV. Status of RCRA Grant Hansel
 - Hickok Contract (W23, W105, W300, Well Search)
 - CH2M Hill Contract (Treatment of SLP 15)
- V. Status of Superfund Grant Hansel
- VI. Status of U.S. Geological Survey Efforts Albin
- VII. Status of St. Louis Park Drinking Water Koppy
 - Well 17
 - Minneapolis Hook-up
 - Conservation
- VIII. Health Risk Assessment of Heterocycles Convery
- IX. Discussion of Report by Environmental Research & Technology, Inc. (Reilly Tar & Chemical Proposal). Open
- X. Status of MPCA Reorganization Hansel
- XI. Other Topics
- XII. Setting Date of Next Meeting
- XIII. Adjournment

MINUTES
Working Committee Meeting
St. Louis Park Groundwater Problem
January 27, 1983

The 37th meeting of the Working Committee was held at the Department of Health (Room 206). Members present included:

Gary Englund	Minnesota Department of Health	623-5330
Sarah Tufford	Minnesota Dept. of Natural Resources	297-2431
Richard Koppy	St. Louis Park	920-3000
Robert Strauss	Izaak Walton League	339-3500
Dudley Moylan	St. Louis Park Housing and Redevelopment Authority	938-5683
Fran Hoffman	Edina	927-8861
John Strojan	Hopkins	935-8474
Michael Hansel	Minnesota Pollution Control Agency	297-3770
Donald Albin	U.S. Geological Survey	725-7841

Others present:

Clint Pires	St. Louis Park	920-3000
Stephen Shakman	Attorney General's Office (MPCA)	296-7703
Vern Tollefsrud	St. Louis Park	920-3000

I. Review and Approval of Agenda

Since Mike Convery was absent Gary Englund made remarks on agenda Item VII. February 15th Meeting was also added under Other Topics as was Last Round of CAPSULE's Measurements to be reported by Dick Koppy and Mike Hansel.

II. Review of Minutes of December 16, 1982, Meeting

The minutes were approved as written.

III. Status of RCRA Grant

Hickok Contract. Hickok was forced to quit work in December due to lack of funds. Superfund dollars were granted January 26, 1983, by the PCA Board. There is still some question about the amount of work left and the amount of money to be spent. Mike Hansel received a phone call Sunday morning from Marc Hult regarding the annular space in well W23. The elevation is low. It is fine for the Prairie du Chien but not for the Platteville.

When the contract is amended Mike Hansel would like to see guidelines set for the Contractor which better define responsibilities/deadlines. He is generally pleased with the performance of the well driller.

Sand needs to be removed at the Jordan level. After the pipe is cut out this well will be used as a Prairie du Chien monitoring well.

Well #23 is currently being pumped for the purpose of collecting undisturbed samples of the Prairie du Chien-Jordan.

-N-

X Proposed

Park Bowling Alley

X W23

New Well Site

X Proposed

Proposed by City

X W105

Louisiana Blvd.

The proposed new well will have 16-inch casing through the drift and maybe down to the Prairie du Chien with 6-inch or 8-inch casing. If collapsing conditions are found, the driller will seal off the St. Peter Sandstone with 12-inch casing. At this time it is not known whether it will be a large or a small well. Dick Koppy asked if the City could be given options and they make the choice. In the event this becomes a large well the City may eventually want to use this well for something other than a monitoring well, perhaps for industrial purposes.

Because EPA Superfund monies were originally designated for plugging multi-aquifer wells, this would be an appropriate use; therefore, EPA will provide more funding if necessary. November and December invoices for Hickok have not been paid. We may want to consider keeping Renner and using one of the State's hydrologists in lieu of Hickok. It appears that Hickok did a reasonably good job on the community survey but they had to be coerced into completing it. It was anticipated that 300 wells would be found but they found 750 wells which contributed to the cost overrun.

At present, it is thought contamination is not present in the Mt. Simon since the sample from well SLP 11 (only sample taken in the Mt. Simon) is clean. It is planned to drill one well in the Ironton-Galesville.

Locating the well north may provide a false reading because that site may be over the old creosote pond.

The Hickok proposal is not commonly accepted, contracting the plume seems to be the preferred policy.

Reilly would like to submit a comprehensive proposal to cover at least the treatment of drinking water, a gradient control system and the source material study.

ERT (Reilly's consultant) is continuing to contact USGS and others regarding St. Louis Park. Mike Hansel should be notified prior to any detailed discussions so that he is aware of the content of any discussions.

CH2M Hill Contract. CH2M Hill has completed benchtesting treatment options and has found that granular activated carbon is half the expense of oxidation. Oxidation worked very well but the cost of the ultraviolet lights made it cost prohibitive. Ozone treatment without ultraviolet lights was also tested and found to be ineffective.

At the January 14th meeting it was decided to take granulated activated carbon to the pilot study stage. The system will be set up at well #15 and run 24 hours per day and a contingency plan developed to perhaps run tests longer. A small pump will be used so that all water will be treated and the water will be discharged to the sanitary sewer. Metropolitan Waste Control Commission (MWCC) has started asking for information. It would probably be a good idea to have a representative of the MWCC on the committee.

CH2M Hill will be doing additional pilot scale testing for treatment of well #23 discharge following the amendment of the existing contract.

IV. Investigations of Environmental Research and Technology (ERT)

CH2M Hill and ERT have tested the Minneapolis, St. Paul and Plymouth water supplies and CH2M Hill will be testing Minnehaha Creek, the Mississippi River, and the Chain of Lakes in the near future.

MPCA would like to clean out Prairie du Chien well #23 as it is one-thousand times dirtier than any other City well. CH2M Hill has been asked to put together a cost estimate for pilot work on the well as noted above. The primary problem is the maintenance cost. In general, MPCA is pleased with the work done by CH2M Hill and would prefer amending CH2M Hill's contract since State budget cuts and redtape make it easier than issuing a new contract. It should be noted that in all pilot studies the cost of analyses is much greater than the cost of setup and collection.

ERT continues to advocate use of existing sand filters to remove PAH and is not yet convinced that carbon is the way to go. It is likely ERT will want to split samples.

The MPCA intends to submit an amendment to the cooperative agreement to the U.S. EPA following the public meeting this summer, which will include a phased approach to drinking water supply and groundwater control.

The City would like to begin construction with the completion of the Hill contract and forego any more study. Steve Shakman indicated a current court settlement in Michigan established a precedent for a phased approach.

The treatment and discharge system for well #23 will not produce water acceptable for drinking water; therefore, four discharge options are available:

1. Discharge to surface water which requires a NPDES Permit or to a sanitary sewer (extremely expensive);
2. Discharge to Minnehaha Creek;
3. Discharge to the Chain of Lakes;
4. Installation of a sewer line and discharge to the Mississippi River.

Discharging to Minnehaha Creek during low flow could be a problem, but the possibility exists that the water once treated may be as clean as that in the Chain of Lakes or the Mississippi River. The final decision will be based on cost. Operation and maintenance expenses after the first six months will not be covered by Superfund monies because it only covers startup costs.

V. Status of Superfund Contract

Superfund grant monies were received December 22, 1982. EPA held the funds because they didn't know if the State's share was 10% or 50% -- the signed agreement stipulated a 10% match. Now that this money has been received the following has or can be done:

1. Hired a full-time secretary,
2. Hired technical people - hydrologist and public information officer,
3. Signed an agreement with the Land Management Information Center for computer services,
4. Started work on wells #23, #105, and #300,
5. Begin composing RFP for a \$450,000 contract for W13, swamp, etc. -- would again like this to be a cooperative effort,
6. Let contracts to close more of the multi-aquifer wells (EPA needs reports on why and on cost-effectiveness.).

VI. Status of U.S.G.S. Efforts

U.S.G.S. negotiated and is getting an extension of the contract. Essentially they have been letting things progress slowly but are hoping to meet the established timelines by adding additional staff. The new person will push the modeling effort. It is also rumored that EPA would like to have another major meeting. The interagency Superfund MOU with EPA, whereby they can be called upon by EPA (at the instigation of MPCA) to provide technical assistance, is being extended through 1983 with the monies being expanded considerably.

A U.S.G.S. Denver researcher has proposed development of a mobile laboratory (including a GC/MS) which will be used to study the movement of organic fluids. St. Louis Park may be used as the first test site for this project.

VII. Health Risk Assessment of Heterocycles

Funds have been given to MHD's Health Risk Assessment Section to look into the health risks of heterocycles. A student has been hired to do the research and preliminary information should be available in two weeks. Dave Gray is also looking into extending this position.

VIII. Other Topics

St. Louis Park Public Meeting. The City will be holding a public meeting February 15th to ask for input to some basic questions and to inform the public about the CH2M Hill Contract. The general consensus of this group was that the meeting would last too long and that this group should agree on the questions to be raised for public input. A meeting will be held February 2nd to establish the above questions. The possibility of televising the meeting on the Park City Limits Show and/or videotaping the meeting for cable television was also discussed.

CAPSULE's Data. The following problems have arisen in relation to the data generated by CAPSULE:

1. Recoveries - The lowest recovery for naphthalene is so low it may be a problem. The City should investigate to determine if they have always had this problem and Bill Scruton, MHD, will be asked to evaluate the data and make appropriate suggestions. A joint meeting will be held to discuss the problem.
2. Sampling Points - Reilly is saying they have to look at the tap, that is where it counts since contamination levels jump around. It could be detection limits again. PAH's are being found in other systems and may be attributable to epoxies, tank coatings, etc. This problem has been studied by MHD and to date no problems have been encountered with distribution systems.

Well #17 is nearing completion. The 12-inch casing is set and the hole has been blasted. Bailing is ongoing, with the excavated material being red. Total depth of the well is 1,085 feet.

St. Louis Park has signed their part of the connection study agreement, however, Minneapolis has not. An engineering report will need to be developed to establish the cost, etc., of hooking up every household from Highway 100 to the eastern border of St. Louis Park. Minneapolis will use their staff to develop this report. The detailed design stage may be done by St. Louis Park staff or contracted by the City. Once the system is installed it may be used either as a backup system or permanently.

IX. Setting Time for Next Meeting (at the MPCA)

The next meeting will be March 10, 1983, 9:30 a.m. at MPCA's main building.

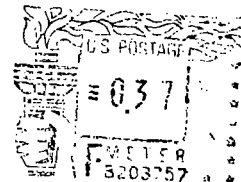
- X. The meeting adjourned at 11:40 a.m.



minnesota department of health
717 s.e. delaware st., p.o. box 9441, minneapolis, 55440



Mr. Michael Kosakowski (WH-527)
U.S. EPA, Office of Waste
Programs Enforcement
Rm. 1123, 401 M Street S.W.
Washington, DC 20460



MINUTES
Working Committee Meeting
St. Louis Park Groundwater Problem
January 27, 1983

The 37th meeting of the Working Committee was held at the Department of Health (Room 206). Members present included:

Gary Englund	Minnesota Department of Health	623-5330
Sarah Tufford	Minnesota Dept. of Natural Resources	297-2431
Richard Koppy	St. Louis Park	920-3000
Robert Strauss	Izaak Walton League	339-3500
Dudley Moylan	St. Louis Park Housing and Redevelopment Authority	938-5683
Fran Hoffman	Edina	927-8861
John Strojan	Hopkins	935-8474
Michael Hansel	Minnesota Pollution Control Agency	297-3770
Donald Albin	U.S. Geological Survey	725-7841

Others present:

Clint Pires	St. Louis Park	920-3000
Stephen Shakman	Attorney General's Office (MPCA)	296-7703
Vern Tollefsrud	St. Louis Park	920-3000

I. Review and Approval of Agenda

Since Mike Convery was absent Gary Englund made remarks on agenda Item VIII. February 15th was also added under Other Topics - Last round of CAPSULE's measurements to be reported by Dick Koppy and Mike Hansel.

II. Review of Minutes of December 16, 1982, Meeting

The minutes were approved as written.

III. Status of RCRA Grant

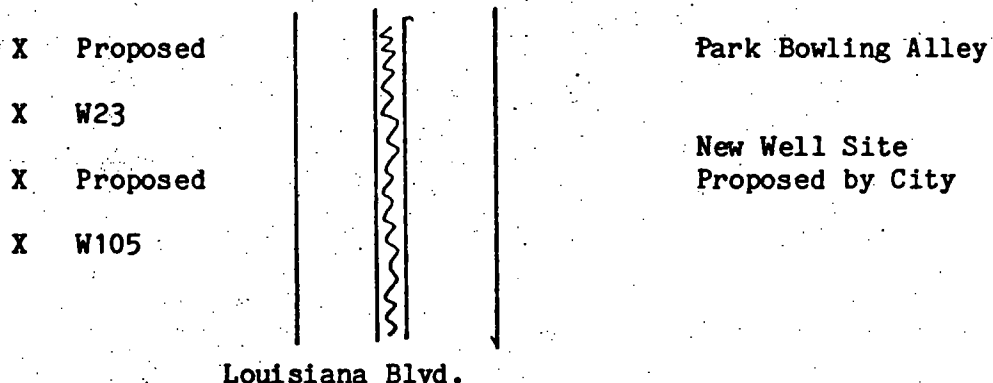
Hickok Contract. Hickok was forced to quit work in December due to lack of funds. Superfund dollars were granted January 26, 1983, by the PCA Board. There is still some question about the amount of work left and the amount of money to be spent. Mike Hansel received a phone call Sunday morning from Marc Hult regarding the annular space in well #15. The elevation is low. It is fine for the Prairie du Chien but not for the Jordan.

When the contract is amended Mike Hansel would like to see guidelines set for the Contractor which better define responsibilities/deadlines. He is generally pleased with the performance of the well driller.

Sand needs to be removed at the Jordan level. After the pipe is cut out this well will be used as a Prairie du Chien monitoring well.

Well #23 is currently being pumped for the purpose of collecting undisturbed samples of the Prairie du Chien-Jordan.

-N-



The proposed new well will have 16-inch casing through the drift and maybe down to the Prairie du Chien with 6-inch or 8-inch casing. If collapsing conditions are found, the driller will seal off the St. Peter Sandstone with 12-inch casing. At this time it is not known whether it will be a large or a small well. Dick Koppy asked if the City could be given options and they make the choice. In the event this becomes a large well the City may eventually want to use this well for something other than a monitoring well, perhaps for industrial purposes.

Because EPA Superfund monies were originally designated for plugging multi-aquifer wells, this would be an appropriate use; therefore, EPA will provide more funding if necessary. However, some cost controls should be placed on Hickok & Associates since so much of their work is having to be redone. November and December invoices for Hickok have not been paid. We may want to consider keeping Renner and using one of the State's hydrologists in lieu of Hickok. It appears that Hickok did a reasonably good job on the community survey but they had to be coerced into completing it. It was anticipated that 300 wells would be found but they found 750 wells which contributed to the cost overrun.

At present it is thought contamination is not present in the Mt. Simon since the sample from well SLP 11 (only sample taken in the Mt. Simon) is clean. It is planned to drill one well in the Ironton-Galesville.

Locating the well north may provide a false reading because that site may be over the old creosote pond.

The Hickok proposal is not commonly accepted, contracting the plume seems to be the preferred policy.

Reilly would like to submit a comprehensive proposal to cover at least the treatment of drinking water, a gradient control system and the source material study.

ERT (Reilly's consultant) is continuing to contact USGS and others regarding St. Louis Park. Everyone can talk but Mike Hansel should be informed of the contents of these discussions.

CH₂M Hill Contract. CH₂M Hill has completed benchtesting treatment options and has found that granular activated carbon is half the expense of oxidation. Oxidation worked very well but the cost of the ultraviolet lights made it cost prohibitive. Ozone treatment was also tested and found to be ineffective.

At the January 14th meeting it was decided to take granulated activated carbon to the pilot study stage. The system will be set up at well #15 and run 24 hours per day and a contingency plan developed to perhaps run tests longer. A small pump will be used so that all water will be treated and the water will be discharged to the sanitary sewer. Metropolitan Waste Control Commission has started asking for information. It would probably be a good idea to have a representative of the MWCC on the committee.

CH₂M Hill will be doing additional work on well #23.

IV. Investigations of Environmental Research and Technology (ERT)

ERT has tested the Minneapolis, St. Paul and Plymouth supplies and will be testing Minnehaha Creek, the Mississippi River, and the Chain of Lakes in the near future.

MPCA would like to clean out Prairie du Chien well #23 as it is 1000 times dirtier than any other City well. CH₂M Hill has been asked to put together a cost estimate for ozonization of this well and the discharging of the water to the Mississippi River. Step 1 will be to separate oil fractions from the drift groundwater and Step 2 will be treatment. The primary problem is the maintenance cost. In general, MPCA is pleased with the work done by CH₂M Hill and would prefer amending CH₂M Hill's contract since State budget cuts and redtape make it easier than issuing a new contract. It should be noted that in all pilot studies the cost of analyses are much greater than the cost of set up and collection.

ERT continues to be convinced that you can somehow tweek a sand filter and get it to pull out polynuclear aromatic hydrocarbons and the State is wrong to test carbon. It is likely ERT will want to split samples.

After Hill is completed in June and July, the following should be answered or completed: 1. Whether carbon works, 2. Cost involved, 3. Study of Minneapolis connection. The phased approach submitted to EPA includes: 1. Pumping well #23, and 2. Pumping and treatment of wells #10 and #15.

The City would like to begin construction with the completion of the Hill contract and forego any more study. Steve Shakman indicated a current court settlement in Michigan established a precedent for a phased approach.

The treatment and discharge system for well #23 should not be used as a drinking water source for the City; therefore, four discharge options are available:

1. Discharge to surface water which requires a NPDES Permit or to a sanitary sewer (extremely expensive);
2. Discharge to Minnehaha Creek;
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Superfund grant monies were received December 22, 1982. EPA held the funds because they didn't know if the State's share was 10% or 50% -- the signed agreement stipulated a 10% match. Now that this money has been received the following has or can be done:

1. Hired a full-time secretary,
2. Hired technical people - hydrologist and public information officer,
3. Signed an agreement with the Land Management Information Center for computer services,
4. Provided funds to the U.S.G.S.,
5. Started work on wells #23, #105, and #300,
6. Begin composing RFP for a \$450,000 contract for W13, swamp, etc.- would again like this to be a cooperative effort,
7. Let contracts to close more of the multi-aquifer wells (EPA needs reports on why and on cost-effectiveness.).

VI. Status of U.S.G.S. Efforts

U.S.G.S. negotiated and is getting an extension of the contract. Essentially they have been letting things progress slowly but are hoping to meet the established timelines by adding additional staff. The new person will push the modeling effort. It is also rumored that EPA would like to have another major meeting. The interagency Superfund MOU with EPA whereby they can be called upon by EPA (at the instigation of MPCA) to provide technical assistance is being extended through 1983 with the monies being expanded considerably.

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VIII. Health Risk Assessment of Heterocycles

Funds have been given to MHD's Health Risk Assessment Section to look into the health risks of heterocycles. A student has been hired to do the research and preliminary information should be available in two weeks. Dave Gray is also looking into extending this position.

IX. Other Topics

St. Louis Park Public Meeting. The City will be holding a public meeting February 15th to ask for input to some basic questions and to inform the public about the CH₂M Hill Contract. The general consensus of this group was that the meeting would last too long and that this group should agree on the questions to be raised for public input. A meeting will be held February 2nd to establish the above questions. The possibility of televising the meeting on the Park City Limits Show and/or of videotaping the meeting for cable television were also discussed.

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X. Setting Time for Next Meeting (at the MPCA)

The next meeting will be March 10, 1983, 9:30 a.m. at MPCA's main building.

XI. The meeting adjourned at 11:40 a.m.

MINUTES
Working Committee Meeting
St. Louis Park Groundwater Problem
April 21, 1983

The 38th meeting of the Working Committee was held at the St. Louis Park City Offices. Members present included:

Michael Convery	Minnesota Department of Health	623-5297
Sarah Tufford	Minnesota Dept. of Natural Resources	297-2431
Richard Koppy	St. Louis Park	920-3000
John Strojan	Hopkins	935-8474
Michael Hansel	Minnesota Pollution Control Agency	297-3770
Jim Stark	U.S. Geological Survey	725-7841

Others present:

Vern Tollefsrud	St. Louis Park	920-3000
Susan Brustma	Minnesota Pollution Control Agency	296-7294
Doug Fullen	Metro Waste Control Commission	222-8423
Jean Bergal	Metro Waste Control Commission	222-8423

I. Review and Approval of Agenda

The issue of reorganization within the Department of Natural Resources was added to the agenda under "Other Topics." With this addition, the agenda was approved.

II. Review of Minutes of March 10, 1983, Meeting

The minutes for the March 10, 1983, meeting of the Working Committee were approved with no changes. Mike Convery noted that some additional errors have been noted in the January 27, 1983, meeting minutes and that a complete, corrected set of meeting minutes will be distributed to all Committee members.

III. Status of RCRA Grant

The RCRA Grant is due to expire at the end of May 1983. It appears that it will be extended through June 1983, which should be sufficient to complete the remaining tasks.

Hickok Contract. The Hickok contract has been amended to be for \$223,000. This work will include the remaining renovation of well W23, the construction of a cored well (well 300) adjacent to W23, the shipment and disposal of the coal-tar wastes removed from well W23, and the installation of permanent electrical power at the well W23 site.

CH2M Hill Contract. The pilot plant testing on well 15 was completed on April 1, 1983. There was no breakthrough of contaminants through the second column. The consultants are now doing a cost-effective analysis, comparing the treatment costs with a Minneapolis hook-up and with drilling additional deeper wells. The Milestone report should be available in early May 1983. A public meeting would follow sometime in June 1983.

The CH2M Hill contract will be amended for an additional \$100,000 for a pilot treatment study for well W23. An alternative to treatment would be direct discharge to the MWCC system. The total PAH levels for this well are on the order of 1 mg/l. If there are no strength charges, the disposal costs for the sanitary sewer would be on the order of \$1.00-\$1.10/1000 gallons. The pilot treatment at well W23 would require only 2 gallons per minute (gpm). The smallest pump pushes 10 gpm, so there will be excess water for disposal. One possibility would be to return it to the well. Mike Hansel stated that this would be done once well 23 has been recompleted. CH2M Hill will also sample surface waters and stormwater outlets in the area to determine background levels for the coal-tar derivatives.

The City has applied for a NPDES permit to turn on municipal wells 4 and 15 to provide some gradient control. A meeting of representatives of the Minneapolis Park Board, the Minnehaha Creek Watershed, and the Citizens for a Better Environment (CBE) was held last week. Generally, the government representatives did not want any disposal in the Chain of Lakes or Minnehaha Creek, hinting that the Mississippi River would perhaps be acceptable. The CBE representatives wanted drinking water standards met for any discharge from W23. It does not appear that Minnehaha Creek could handle sustained discharge throughout the entire year.

IV. Status of Superfund Grant

The contract with the U.S. Geological Survey is almost finalized. A contract with the University of Minnesota Computer Center is also set. M.P.C.A. representatives are meeting with the U.S.G.S. to develop the final details of the transport model and the questions to be answered by the model.

The effort to store field data on the Land Management Information Center data base is continuing. The data will be stored in the same format used regularly by LMIC.

The Request for Credentials/Request for Proposals for the source area control/cleanup is in draft form and out for review. It is hoped to have this published in May in the State Register. Work will start at the earliest in October.

The Community Relations Plan will be sent to the U.S. Environmental Protection Agency. The plan establishes a community advisory committee, consisting of representatives from the wards in St. Louis Park, community and civic organizations in St. Louis Park, environmental groups in St. Louis Park, and from Hopkins. These representatives must be formally appointed by the MPCA Board.

V. U.S. Geological Survey Efforts

The U.S.G.S. is currently designing the transport model and is now finalizing the scale and goals of the model. The list of questions is being completed. Some of these questions can be answered by the flow component of the model, while others will have to await completion of transport components. The grid is well established, having the greatest detail in the St. Louis Park area (400' x 400' grid). The general area of the model extends from the Lake Minnetonka area to the Mississippi River and downtown Minneapolis, with the Minnesota River as the south boundary.

The model is approaching the capacity of the University system and is already compiled. Calibration runs are being conducted for steady-state flows. Pumpage records for the 1970's are being gathered. The monitoring network is still active. Marc Hult is concentrating on drift transport and assisting in establishing the LMIC data base.

VI. Status of St. Louis Park's Drinking Water

Well 17: Air surging has been conducted during the past month, removing 100 cubic yards of sand. The contract with Layne was extended to May 6, 1983. Unfortunately, the pump shaft broke again yesterday. Contractors are already lined up for the plumbing, electrical, and pump work.

Minneapolis Hook-up: Minneapolis staff are currently writing the report now, which should be available in a week. Minneapolis officials desire a five-year commitment to purchase water. This is the major point of concern for St. Louis Park officials. The St. Louis Park officials and residents are also concerned about the limited storage capacity of the Minneapolis system and the potential for contamination of the Minneapolis source by spills or leakages.

Conservation: The conservation committee will meet this afternoon. At the last meeting of March 31, 1983, the committee brainstormed to compile a comprehensive list of conservation mechanisms. At today's meeting, the committee will attempt to finalize the goals and to discuss strategies to meet those goals. The committee is becoming rather large and so the citizen and technical subcommittees may meet separately.

VII. Health Risk Assessment of Heterocycles

A first draft of the report has been submitted to Dave Gray for review. A final report should be available within a couple weeks.

VIII. Status of M.P.C.A. Reorganization

The positions for the expanded programs have been posted. They are currently interviewing for manager positions. The next level will be interviews for the project manager positions.

The State Superfund bill has passed the House floor. The Senate bill is still forthcoming.

IX. D.N.R. Reorganization

The Hydrology Section has been eliminated. A new section, called the Water Use Management Section has been established, consisting of a regulatory unit (headed by Hedia Rieke) and a technical analysis unit (headed by Pat Bloomgren).

X. Other Topics

Dick Koppy distributed copies of Water Update No. 2 (dated April 18, 1983) which was provided to the City Council. Copies are attached to the minutes for those members who were not at the committee meeting.

XI. Next Meeting

The next meeting of the Working Committee will be on Thursday, May 19, 1983, at 9:30 a.m. at the Minnesota Department of Health (Room 408).

- 6/24/83 PAH CRITERIA MEETING -
FOR DRINKING WATER

51540

BOB LEININGER	U.S. EPA, REGION II	312-886-6720
Mike Hensel	MN PCA	612-296-7758
Mike Harris	CH2M HILL	414-272-2424
Russ Diefenbach	U.S.E.P.A.	312-886-6336
Jean C Parker	OWPE/US EPA	202-382-4833
PAUL ZERBY	MINN-AG (Health)	612-341-7272
Steve Shakman	" " (PCA)	612-296-7342
(so coming) David Gray	MINN DEPT OF HEALTH	612- 422 ⁶²² -5352
DEBORAH WOITTE	U.S. EPA, Wash. D.C.	202-382-3117
Ed Kleppinger	Consultant to Minn AG.	202-488-1015
MIKE KOSAKOWSKI	U.S. EPA Wash D.C.	202 382 4811
Eula Bingham	Univ. Cincinnati, Ohio 45208	513-415-4532
Brenda Kimble	Amphion Associates, CA	415-372-8260
David HIRD	US Dept of Justice	202-633-2771
PAUL BITTER	U S EPA	312 886-3007
Jim Selkirk	OAK RIDGE	615-483-1812

MINUTES
Working Committee Meeting
St. Louis Park Groundwater Problem
August 8, 1983

The 40th meeting of the Working Committee was held in the Basement Conference Room, starting at 9:30 a.m. Members present included:

Michael Convery	Minnesota Department of Health	623-5297
Michael Hansel	Minnesota Pollution Control Agency	296-7758
Hedia Rieke	Minnesota Department of Natural Resources	296-0508
Richard Koppy	City of St. Louis Park	920-3000
John Strojan	Hopkins	935-8474
Dan Gillies	U.S. Geological Survey	725-7841
Dudley Moylan	Housing & Redevelopment Authority (SLP)	938-5683

Others present included:

Steve Riner	Minnesota Pollution Control Agency	296-7297
Susan Brustman	Minnesota Pollution Control Agency	296-7294
Jean Bergal	Metropolitan Waste Control Commission	222-8423
Doug Fullen	Metropolitan Waste Control Commission	222-8423

- I. Review and Approval of Agenda: The agenda was approved with no changes.
- II. Review of Minutes of July 14, 1983: The minutes of this meeting were approved with no changes.
- III. Status of RCRA Grant:

Hickok Contract: Work on removing the 7-inch casing is continuing without a great deal of success. It appears that this casing may be locked in the St. Peter Sandstone. The alternatives tried to date include using a horizontal pipe cutter, sandlocking and pulling the casing, using a vertical pipe splitter, and blasting. The next attempt will use a reversing pile driver.

CH2M Hill Contract: The Mississippi River, Minnehaha Creek, and Chain of Lakes will be sampled during a major storm event. The review of the final report is nearing completion and all comments should be into the Minnesota Pollution Control Agency by week's end.
- IV. Superfund Grant: Some funds have been committed to amendments of the Hickok and CH2M Hill contracts. The format for the LMIC data base is established and they are now trying to transfer the data. In the Source Material study, 17 sets of credentials were submitted and reviewed. Three finalist consortiums (Donahue-Batelle, CH2M Hill-Barr, Dames & Moore, et.al) were selected to submit proposals. An informational meeting will be held for the consultants prior to preparation of proposals. This meeting will be held following the meeting with Environmental Research and Technology on August 11, 1983.

- V. Status of U.S. Geological Survey Efforts: The monthly pumpage for the metropolitan area has been completed for inclusion into the regression model. There does appear to be a decent correlation between pumpage and temperature and precipitation (except for municipal pumpage). In terms of the transport and flow models, there have been problems with the SWIP code. Some options of the code do not appear to be working properly, particularly the aerial recharge and fixed boundary components. Very few researchers have had experience with these aspects of the code.
- VI. Status of St. Louis Park Drinking Water: The drinking water situation is in good shape. The wet spring and the conservation measures have resulted in a 16-17% reduction in water usage from July 1982 to July 1983.
- VII. Discussion of August 11, 1983 Meeting with Environmental Research and Technology: A technical discussion of the E.R.T. report will be held in the M.P.C.A. Boardroom on August 11, 1983, starting at 9:00 a.m. The key issues of discussion will include:
1. Drinking Water - standards
treatment alternatives
monitoring strategies
 2. Groundwater - value as a resource
remedial alternatives
modeling methods
discharge and treatment
monitoring strategies
 3. Source Control - clean Wells W23 and W105
swamp area
sorption
economics
 4. 11 Recommendations
 5. Plans for Remainder of Year
- VIII. Next Meeting: The next meeting of the Committee meeting will be at the City of St. Louis Park City Hall on September 22, 1983 at 9:00 a.m.



minnesota department of health

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Mr. Michael Kosakowski (WH-527M)
U.S. EPA, Office of Waste
Programs Enforcement
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Washington, D.C. 20460

